Figure 1

```
GGCACGAGCTCTCCTCGTCCCCTCCCTTCTCCACTGCAGCCTTTCTCTTAGCCCGAACCA  60
CTTCCTTCTTCTGCTTGTTCCTCCCTAGGGCGCGGAAGCTGAGTGCAGGGTTCAGACCCA 120
CGCGGCGAGCAGCTCTTCAGTGAAGAAGGAAGCAATCGGAGGGTCAGCAATGAACGTGGA 180
                                                  M  N  V  E
GCATGAGGTTAACCTCCTGGTGGAGGAAATTCATCGTCTGGGTTCCAAAAATGCCGATGG 240
 H  E  V  N  L  L  V  E  E  I  H  R  L  G  S  K  N  A  D  G
GAAACTGAGTGTGAAGTTTGGGGTCCTCTTCCAAGACGACAGATGTGCCAATCTCTTTGA 300
 K  L  S  V  K  F  G  V  L  F  Q  D  D  R  C  A  N  L  F  E
AGCGTTGGTGGGAACTCTGAAAGCCGCAAAACGAAGGAAGATTGTTACGTACGCAGGAGA 360
 A  L  V  G  T  L  K  A  A  K  R  R  K  I  V  T  Y  A  G  E
GCTGCTTTTGCAAGGTGTTCATGATGATGTTGACATTGTATTGCTGCAAGATTAATGTGG 420
 L  L  L  Q  G  V  H  D  D  V  D  I  V  L  L  Q  D
TTTGCAGATCTGGGGGTATCTGGTAAACTGGAATAATTAAGTTAAAGGACAAACATGAAG 480
TTCCTTATGTATTTTTATAGACCTTTGTAAACAAAAGGGGACTTGTTGAGAAGTCCTGTT 540
TTTATACCTTGGAGCAAAACATTACAATGTAAAAATAAACAAAACCTGTTATTTTTTTTT 600
TCTTAAGAAGGTAATCGGGAGACGTAGGCAATAAAATGTTTTCAGAGGTGCGAAAAAGCT 660
TTTGTTTTCTTAAACCATTCTTAGTCTCTGCCACACTTGACACTCCGTCAAAGTGAGAAG 720
CGAACTAAAGACCAACTGCGGTGGAAAATATTATGTTTATGTAATAAAAAAAAATCATGT 780
```

Figure 2

```
GGCACGAGGCTTGAGCGCAGAAACACTTACTTTTCCCCCTACCCTGCTCCTCCTCCTCCA 60
CAGCCGTCTTTCTCTTTGCCTCAGCCACTTCCTTCCTTCGCCTCACCCTCCCCAGTGCAC 120
TGAAGAAGGTAACCGGGTCCAGACCCACGCGGCGCCAGTTCTCCGGCGGGAAGGAAAACC 180
GCGCAGAGAGGCAGCAATGAATGTGGATCACGAGGTTAACCTCTTAGTGGAGGAAATTCA 240
                 M  N  V  D  H  E  V  N  L  L  V  E  E  I  H
TCGTTTGGGTTCAAAAAATGCTGATGGAAAGTTAAGCGTGAAATTTGGGGTCCTCTTCCG 300
 R  L  G  S  K  N  A  D  G  K  L  S  V  K  F  G  V  L  F  R
TGATGATAAATGTGCCAACCTCTTTGAAGCATTGGTAGGAACTCTTAAAGCTGCAAAACG 360
 D  D  K  C  A  N  L  F  E  A  L  V  G  T  L  K  A  A  K  R
AAGGAAGATTGTAACATATCCAGGAGAGCTGCTTCTGCAAGGTGTTCATGATGATGTTGA 420
 R  K  I  V  T  Y  P  G  E  L  L  L  Q  G  V  H  D  D  V  D
CATTATATTACTGCAAGATTAATGTGGTTTACATATCTTTATGTACTGCCATTTTTTGTT 480
 I  I  L  L  Q  D
TCTGGTAAACTGGAATATAAAGTGAAAGAACAAACATTTGAACATACTTAATGTATTTTT 540
ATAGAACTTTGTAAACGAAAGGAGATTCATGTTTTAGAAGTCTGTCCTTTTTTATATCTT 600
GAAAGAAAATCTATGTATGATGCTATAAAATAAATCCTATTATTTTTCTCAGGAATCTGG 660
TTAGGAATTGCAGGCAATGAGATTTTTTGCGGGGCAGGGATGGGAATGTTTGTTCATAAA 720
TAATTAGACATTTTCTATAGATATTTGACATTCTGCGAAAGCAACAAGCAAACTGAAGAC 780
CAACTCCTATGAGAAATATTATGATGTTTATGTAATAAAGACATGTAACTGTCTT 835
```

Figure 3

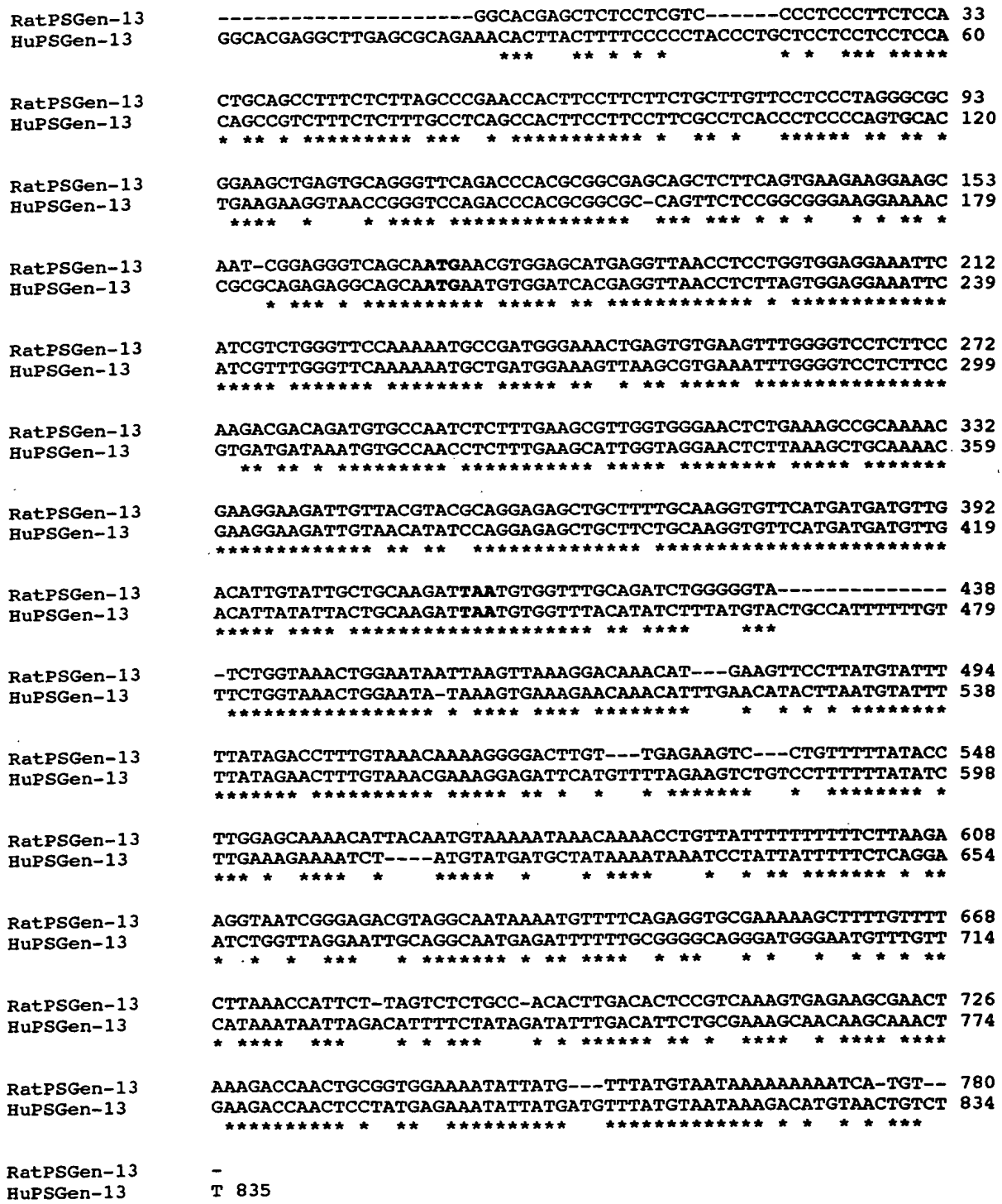
RatPSGen-13 ----------GGCACGAGCTCTCCTCGTC------CCCTCCCTTCTCCA 33
HuPSGen-13 GGCACGAGGCTTGAGCGCAGAAACACTTACTTTTCCCCCTACCCTGCTCCTCCTCCTCCA 60
RatPSGen-13 CTGCAGCCTTTCTCTTAGCCCGAACCACTTCCTTCTTCTGCTTGTTCCTCCCTAGGGCGC 93
HuPSGen-13 CAGCCGTCTTTCTCTTTGCCTCAGCCACTTCCTTCCTTCGCCTCACCCTCCCCAGTGCAC 120
RatPSGen-13 GGAAGCTGAGTGCAGGGTTCAGACCCACGCGGCGAGCAGCTCTTCAGTGAAGAAGGAAGC 153
HuPSGen-13 TGAAGAAGGTAACCGGGTCCAGACCCACGCGGCGC-CAGTTCTCCGGCGGGAAGGAAAAC 179
RatPSGen-13 AAT-CGGAGGGTCAGCAATGAACGTGGAGCATGAGGTTAACCTCCTGGTGGAGGAAATTC 212
HuPSGen-13 CGCGCAGAGAGGCAGCAATGAATGTGGATCACGAGGTTAACCTCTTAGTGGAGGAAATTC 239
RatPSGen-13 ATCGTCTGGGTTCCAAAAATGCCGATGGGAAACTGAGTGTGAAGTTTGGGGTCCTCTTCC 272
HuPSGen-13 ATCGTTTGGGTTCAAAAAATGCTGATGGAAAGTTAAGCGTGAAATTTGGGGTCCTCTTCC 299
RatPSGen-13 AAGACGACAGATGTGCCAATCTCTTTGAAGCGTTGGTGGGAACTCTGAAAGCCGCAAAAC 332
HuPSGen-13 GTGATGATAAATGTGCCAACCTCTTTGAAGCATTGGTAGGAACTCTTAAAGCTGCAAAAC 359
RatPSGen-13 GAAGGAAGATTGTTACGTACGCAGGAGAGCTGCTTTTGCAAGGTGTTCATGATGATGTTG 392
HuPSGen-13 GAAGGAAGATTGTAACATATCCAGGAGAGCTGCTTCTGCAAGGTGTTCATGATGATGTTG 419
RatPSGen-13 ACATTGTATTGCTGCAAGATTAATGTGGTTTGCAGATCTGGGGGTA---------- 438
HuPSGen-13 ACATTATATTACTGCAAGATTAATGTGGTTTACATATCTTTATGTACTGCCATTTTTTGT 479
RatPSGen-13 -TCTGGTAAACTGGAATAATTAAGTTAAAGGACAAACAT---GAAGTTCCTTATGTATTT 494
HuPSGen-13 TTCTGGTAAACTGGAATA-TAAAGTGAAAGAACAAACATTTGAACATACTTAATGTATTT 538
RatPSGen-13 TTATAGACCTTTGTAAACAAAAGGGGACTTGT---TGAGAAGTC---CTGTTTTTATACC 548
HuPSGen-13 TTATAGAACTTTGTAAACGAAAGGAGATTCATGTTTTAGAAGTCTGTCCTTTTTTATATC 598
RatPSGen-13 TTGGAGCAAAACATTACAATGTAAAAATAAACAAAACCTGTTATTTTTTTTTTCTTAAGA 608
HuPSGen-13 TTGAAAGAAAATCT----ATGTATGATGCTATAAAATAAATCCTATTATTTTTCTCAGGA 654
RatPSGen-13 AGGTAATCGGGAGACGTAGGCAATAAAATGTTTTCAGAGGTGCGAAAAAGCTTTTGTTTT 668
HuPSGen-13 ATCTGGTTAGGAATTGCAGGCAATGAGATTTTTTGCGGGGCAGGGATGGGAATGTTTGTT 714
RatPSGen-13 CTTAAACCATTCT-TAGTCTCTGCC-ACACTTGACACTCCGTCAAAGTGAGAAGCGAACT 726
HuPSGen-13 CATAAATAATTAGACATTTTCTATAGATATTTGACATTCTGCGAAAGCAACAAGCAAACT 774
RatPSGen-13 AAAGACCAACTGCGGTGGAAAATATTATG---TTTATGTAATAAAAAAAAATCA-TGT-- 780
HuPSGen-13 GAAGACCAACTCCTATGAGAAATATTATGATGTTTATGTAATAAAGACATGTAACTGTCT 834
RatPSGen-13 -
HuPSGen-13 T 835

Figure 4

```
RatPSGen-13     MNVEHEVNLLVEEIHRLGSKNADGKLSVKFGVLFQDDRCANLFEALVGTLKAAKRRKIVT 60
HuPSGen-13      MNVDHEVNLLVEEIHRLGSKNADGKLSVKFGVLFRDDKCANLFEALVGTLKAAKRRKIVT 60
                ***:*********************************:**:**********************

RatPSGen-13     YAGELLLQGVHDDVDIVLLQD 81
HuPSGen-13      YPGELLLQGVHDDVDIILLQD 81
                *.**************:****
```

Figure 5

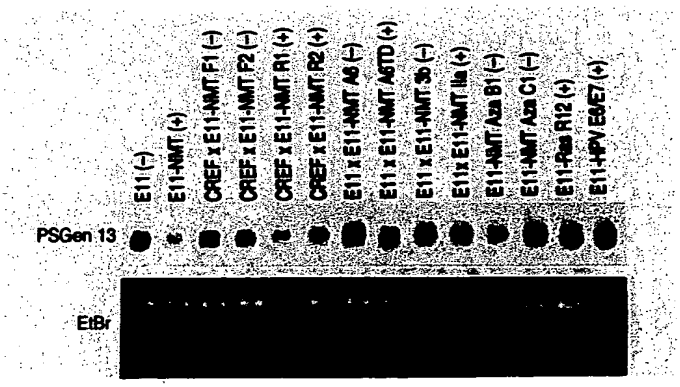
E11 (-)
E11-NMT (+)
CREF x E11-NMT F1 (-)
CREF x E11-NMT F2 (-)
CREF x E11-NMT R1 (+)
CREF x E11-NMT R2 (+)
E11 x E11-NMT A6 (-)
E11 x E11-NMT AGTD (+)
E11 x E11-NMT 3b (-)
E11x E11-NMT IIa (+)
E11-NMT Aza B1 (-)
E11-NMT Aza C1 (-)
E11-Ras R12 (+)
E11-HPV E6/E7 (+)
PSGen 13
EtBr

Figure 6

PSGen 13 Suppresses the Transformed Phenotype in E11-NMT Cells

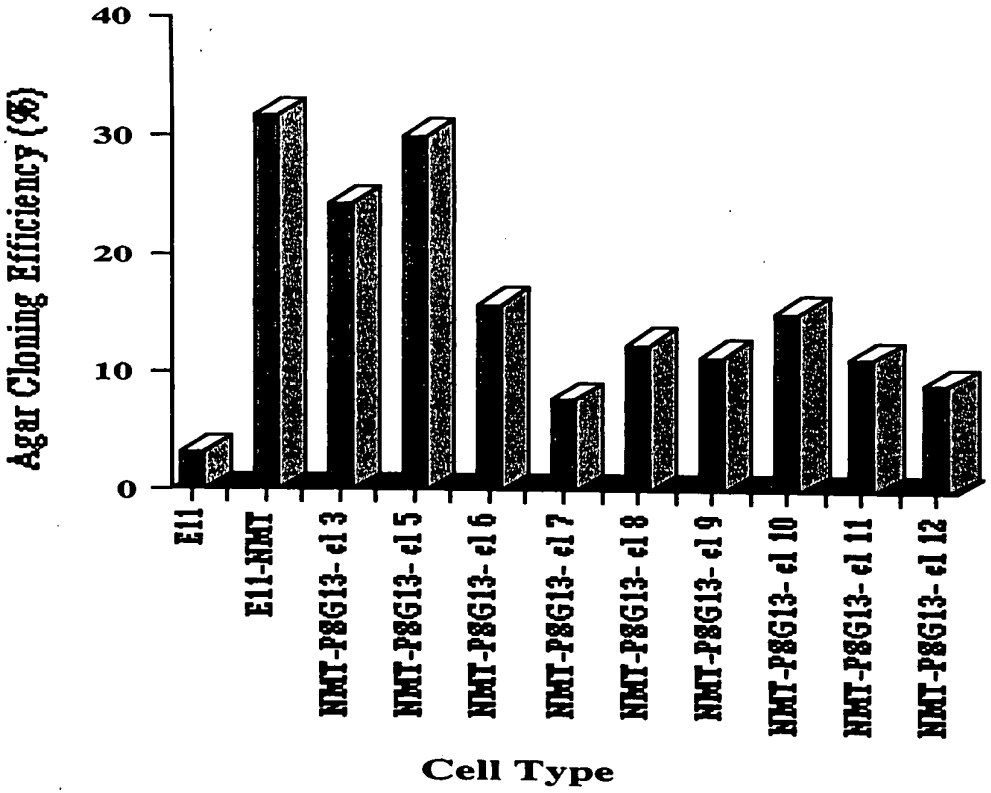

Figure 7

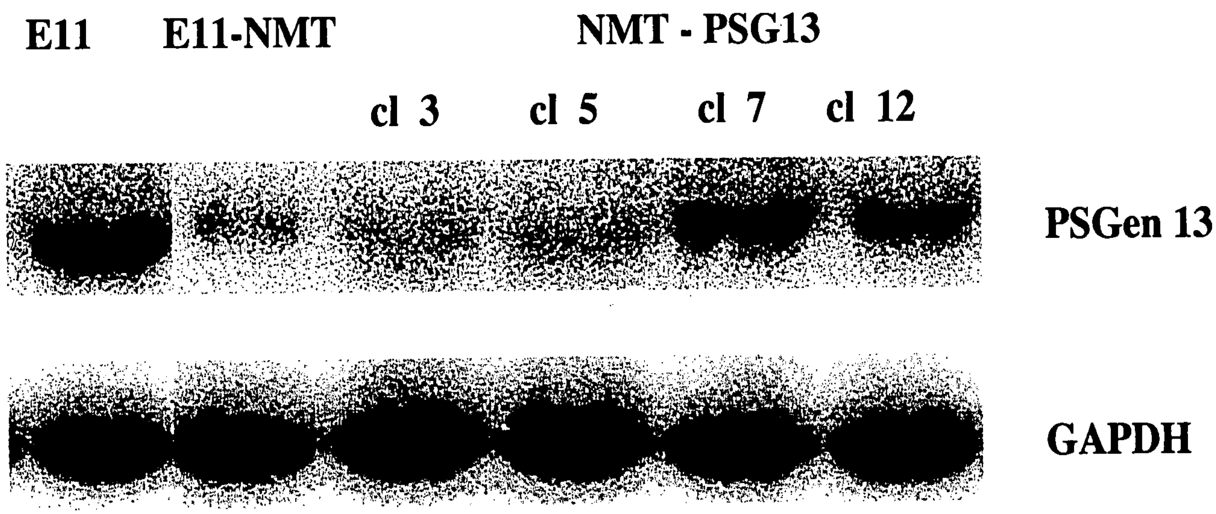

Figure 8

Rat PSGen 13 Inhibits Anchorage Independent Growth in DU-145 Cells

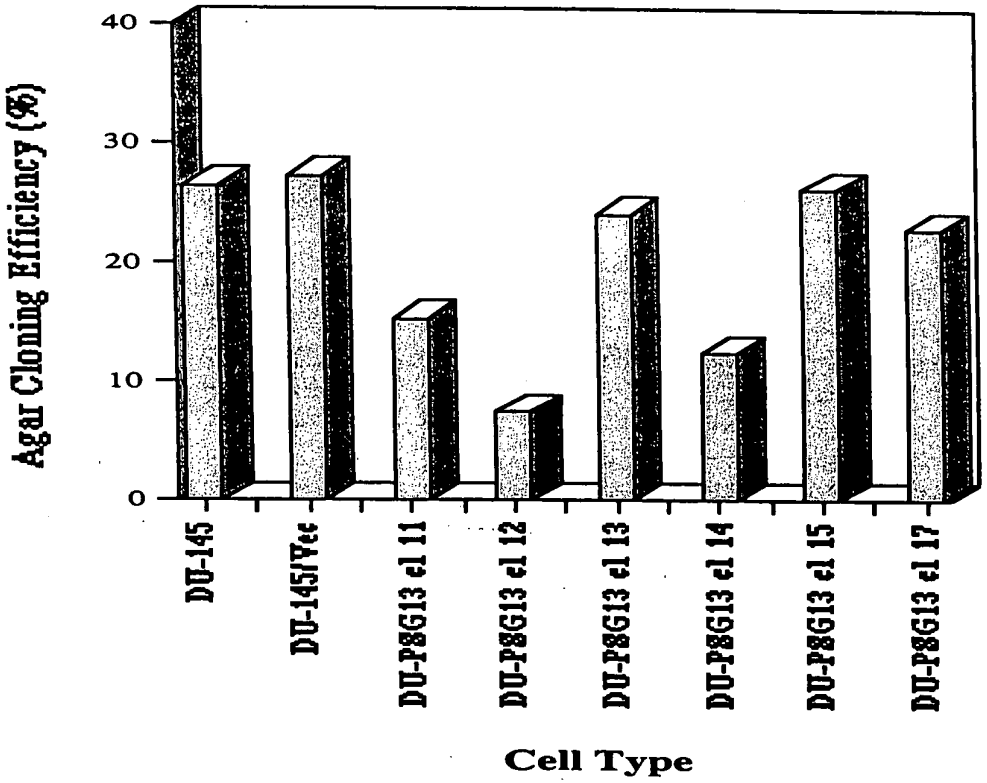

Figure 9

PSGen 13 Suppresses PEG-3 Promoter Activity in E11-NMT Cells

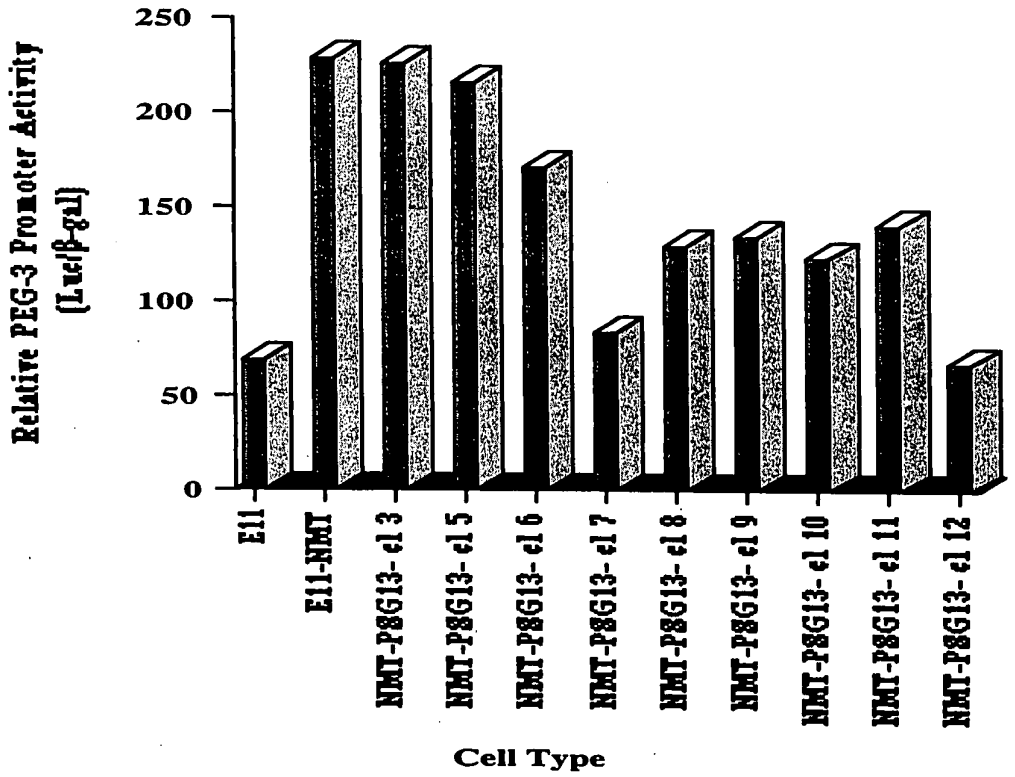

Figure 10

PSGen 13 Suppresses VEGF Promoter Activity in E11-NMT Cells